

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	328	29/888.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 12:00
S2	116	29/888.042.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 12:30
S3	19	29/888.043.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 13:19
S4	399	29/888.044.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:59
S5	366	29/888.07.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 12:00
S6	75	29/888.071.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 12:00
S7	36	("1185825"   "1667202"   "2295199"   "2308178"   "2478179"   "2752213"   "3424138"   "3596571"   "3628511"   "4256022"   "4377967"   "4603617"   "4709621"   "4727795"   "4847964"   "4941397"   "5065508").PN. OR ("5359922").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 12:35
S8	26	("3877351"   "3974381"   "4180027"   "4212281"   "4286505"   "4346646"   "4847964"   "4867119"   "4941440"   "5040454"   "5081967"   "5115726"   "5245752"   "5279268"   "5359922"   "5499572"   "5913960"   "6032619").PN. OR ("6155157"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:27

## EAST Search History

S9	39	("20020046593"   "3319536"   "4706550"   "4875616"   "5150517"   "5207147"   "5230148"   "5245752"   "5309818"   "5317958"   "5359922"   "5394788"   "5549335"   "5588351"   "6032619"   "6112642"   "6155157"   "6222150"   "6244161"   "6260472"   "6279455"   "6291806"   "6371061"   "6477941"   "6491013"   "6499387"   "6508162"   "6508240"   "6513477"   "6526871"   "6539910"   "6557514"   "6571684"   "6588320"   "6588408"   "6637642"   "6736305"   "6825450").PN. OR ("7005620"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:29
S10	21	("1296593"   "1508861"   "1717750"   "1940629"   "4008051"   "4334507"   "4651631"   "4735128"   "4876947"   "4971003"   "5042364"   "5119777"   "5352538"   "5992015"   "6032570"   "6240827").PN. OR ("6508162"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:09
S11	97	Nitronic adj "60"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:10
S12	99	Nitronic adj "60"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:12
S13	3	(Nitronic adj "60") same piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:10
S14	97	(oxidation adj resistance) same piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:29
S15	119	92/216.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:56

## EAST Search History

S16	26	("1667202"   "2478179"   "3424138"   "4377967"   "4603617"   "4709621"   "4727795"   "4847964"   "4941397"   "5065508").PN. OR ("5150517").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:41
S17	1	"6825450".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:41
S18	39	("20020046593"   "3319536"   "4706550"   "4875616"   "5150517"   "5207147"   "5230148"   "5245752"   "5309818"   "5317958"   "5359922"   "5394788"   "5549335"   "5588351"   "6032619"   "6112642"   "6155157"   "6222150"   "6244161"   "6260472"   "6279455"   "6291806"   "6371061"   "6477941"   "6491013"   "6499387"   "6508162"   "6508240"   "6513477"   "6526871"   "6539910"   "6557514"   "6571684"   "6588320"   "6588408"   "6637642"   "6736305"   "6825450").PN. OR ("7005620").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:51
S19	302	92/222.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:51
S22	258	92/222.ccls. and piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 11:10
S23	48	92/222.ccls. and piston and (forged or forging)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:55
S24	58	(92/222.ccls. or 92/223.ccls.) and piston and (forged or forging)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:56

## EAST Search History

S25	2	"4,651,631".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 14:56
S26	20	("1296593"   "1508861"   "1717750"   "1940629"   "4008051"   "4334507"   "4651631"   "4735128"   "4876947"   "4971003"   "5042364"   "5119777"   "5352538"   "5992015"   "6032570"   "6240827").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:59
S27	15	("2707136"   "4434014"   "4440069"   "5065508"   "5170556"   "5245752"   "5259294").PN. OR ("5992015").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:16
S28	1	"4581983".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:16
S29	40	("2340662"   "3189010"   "3190273"   "3349672"   "3613521"   "3914574").PN. OR ("4581983"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:18
S30	8	("3613521"   "5065508").PN. OR ("5309818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 17:04
S31	37	("1700604"   "2198771"   "2244008"   "2361046"   "2752213"   "3319536"   "3319575"   "3354793"   "3596571"   "3613521"   "3707113"   "4552057"   "4651631"   "5007332"   "5076148"   "5216943"   "5265331"   "5309818").PN. OR ("5642654"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 17:08
S32	7	("4011797"   "4581983"   "4727795"   "5359922"   "5645028"   "5778846"   "6032619").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 17:32
S33	1	"3,974,381".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 17:32
S35	249	29/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 17:56

## EAST Search History

S36	100	29/525.14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/09 17:56
S37	2	"3596571".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:18
S38	2	"5992015".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:24
S39	2	"6209446".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:25
S40	2	"5097807".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:27
S41	27	"303444"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:28
S42	8	"10082345"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 07:28
S43	11	"2070068"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 10:46
S44	2	"6973723".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 10:48

## EAST Search History

S45	10	("4419413"   "5972071"   "6070323"   "6279455"   "6318243"   "6363608"   "6435077"   "6477941"   "6626576"   "6825450").PN. OR ("6973723").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 11:14
S46	50	piston.ti. and seam near weld	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:55
S47	5	piston.ti. and (seam near weld) same piston same head	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 11:28
S48	58	piston and (seam near weld) and combustion and engine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 11:47
S49	26	piston.ti. and piston same weld same (perimeter or periphery)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 11:48
S50	26	piston.ti. and piston same weld same (perimeter or periphery)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 11:59
S51	40	piston.ti. and piston same weld same circumferential	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:00
S52	7	piston.ti. and piston same weld near circumferential	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:00

## EAST Search History

S53	10	("3311096"   "4128092"   "4359976"   "4599772"   "4776308"   "5724933"   "5794582"   "5970944"   "6035814").PN. OR ("6360710").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 12:04
S54	11	("2159402"   "2194097"   "3323503"   "4083292"   "4372194"   "4375782"   "4517930"   "4587932").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 12:06
S55	17	("4083292").PN. OR ("4517930").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 12:25
S56	317	92/222.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:56
S57	416	92/224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:56
S58	1873	123/193.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 12:58
S59	70	(S56 or S57) and (forge or forged or forging)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 11:06
S60	9	(S56 or S57) and (forge or forged or forging) same weld	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 13:02
S61	12	("4530884"   "4531269"   "4531502"   "4552057"   "4553472"   "4590901"   "4592268"   "4604945"   "4648308"   "4651630"   "4709621"   "4711208").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 13:09

## EAST Search History

S62	91	piston.ti. and (inductive or induction or inductively) near heat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/10 15:33
S63	53	piston.ti. and weld same temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:33
S64	4	piston.ti. and weld same temperature same laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:35
S65	8	piston.ti. and weld same temperature same beam	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:39
S66	1	piston.ti. and weld same temperature same arc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:39
S67	11949	weld\$3 same temperature same (arc or beam or laser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:40
S68	836	weld\$3 same room same temperature same (arc or beam or laser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:40
S69	707	weld\$3 same room near temperature same (arc or beam or laser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:40
S70	15	weld\$3 same room near temperature same (arc or beam or laser) same piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:44



## EAST Search History

S71	231	weld\$3 same temperature same (arc or beam or laser) same piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:44
S72	25	weld\$3 same temperature same (arc or beam or laser) same piston same engine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:47
S73	11949	weld\$3 same temperature same (arc or beam or laser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:47
S74	5507	weld\$3 same temperature same (arc or beam or laser) same metal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:47
S75	901	weld\$3 same temperature same laser same metal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:48
S76	412	weld\$3 near laser same temperature same metal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 09:48
S77	217	weld\$3 near laser same temperature same metal	USPAT	OR	OFF	2006/03/13 10:14
S78	6	("2972078"   "4215457"   "4547694"   "4833361"   "5128584").PN. OR ("6705915").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 09:59
S79	176	weld\$3 near beam same temperature same metal	USPAT	OR	OFF	2006/03/13 10:15
S80	9	weld\$3 near beam same temperature same metal same cylindrical	USPAT	OR	OFF	2006/03/13 10:17
S81	1387	29/505.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 11:10

## EAST Search History

S82	2	piston and ((three adj weld adj points) or (multipl adj weld adj points))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:03
S83	0	metal same cylinder same ((three adj weld adj points) or (multipl adj weld adj points))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:08
S84	4	metal and cylinder and ((three adj weld adj points) or (multipl adj weld adj points))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:04
S85	6	("2972078"   "4215457"   "4547694"   "4833361"   "5128584").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 13:04
S86	1	metal same ((three adj weld adj points) or (multipl adj weld adj points))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:08
S87	20	(three adj weld adj points) or (multipl adj weld adj points)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:24
S88	4	("4644817"   "4859827"   "4944079"   "5098005").PN. OR ("6897404").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 13:12
S89	3269	weld same point same "120"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:24
S90	1459	weld same point same "120" same metal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 13:25
S91	42	weld same point same "120" same metal	USPAT	OR	ON	2006/03/13 13:25